(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



I CORER CHINING IN CORER HIRE CONTROL CONTROL OF THE CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL

(43) International Publication Date 26 August 2004 (26.08.2004)

PCT

(10) International Publication Number WO 2004/072148 A1

(51) International Patent Classification7:

C08G 65/00

(74) Agent: KARG, Jochen; BASF Aktiengesellschaft, Patent

(21) International Application Number:

PCT/EP2003/011505

(22) International Filing Date: 17 October 2003 (17.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10/364,788

11 February 2003 (11.02.2003)

- (71) Applicants (for all designated States except US): BASF CORPORATION [US/US]; 3000 Continental Drive-North, Mount Olive, NJ 07828-1234 (US). BASF AKTIENGESELLSCHAFT [DE/DE]; 67056 Ludwigshafen (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HINZ, Werner [DE/US]; 25145 Old Depot Court, Grosse Ile, MI 48138 (US). DEXHEIMER, Edward, Michael [US/US]; 26270 East River Road, Grosse Ile, MI 48138, MI 48138 (US).

Department, GVX-C6, 67056 Ludwigshafen (DE).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR REMOVING AND REGENERATING A DOUBLE METAL CYANIDE (DMC) CATALYST FROM A POLYMER POLYOL

(57) Abstract: A method of removing and reclaiming a double metal cyanide (DMC) catalyst from a polyol is disclosed. A polymeric acid that is soluble in the polyol is introduced into the polyol during or after the polymerization reaction. The polymeric acid reacts with the double metal cyanide catalyst thereby causing the double metal cyanide catalyst and the polymeric acid to form an agglomeration in the polyol. The agglomeration is easily separated from the polyol via filtration, for example. The recovered agglomerated DMC catalyst can then be reconstituted using an acid solution.